



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
ENERGY CENTER - ENERGY LOAN PROGRAM  
**LIGHTING UPGRADE WORKSHEET**

BUILDING	LOCATION	DATE
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To estimate the savings when more efficient lighting is installed, the following information must be known:

- The number of old fixtures being changed.
- The wattage of each old fixture.
- The number of new fixtures being installed.
- The wattage of each new fixture.
- The number of hours of use per year.
- The cost per kilowatt-hour of electricity.

**SAVINGS CALCULATIONS**

1. Enter the number of old fixtures being changed ..... \_\_\_\_\_
2. Enter the wattage of the old fixture ..... \_\_\_\_\_
3. Multiply line 1 by line 2 ..... \_\_\_\_\_
4. Enter the number of new fixtures to be installed ..... \_\_\_\_\_
5. Enter the wattage of each new fixture ..... \_\_\_\_\_
6. Multiply line 4 by line 5 ..... \_\_\_\_\_
7. Subtract line 6 from line 3 ..... \_\_\_\_\_
8. Enter the hours of use per year ..... \_\_\_\_\_
9. Multiply line 7 by line 8 ..... \_\_\_\_\_
10. Divide line 9 by 1000 ..... \_\_\_\_\_
11. Enter the cost per kilowatt hour of electricity ..... \_\_\_\_\_

**ANNUAL SAVINGS**

12. Multiply line 10 by line 11 ..... \$ \_\_\_\_\_ /year

**PROJECT COST**

13. Enter the total cost to modify the lighting including material, labor and design ..... \$ \_\_\_\_\_

**SIMPLE PAYBACK**

14. Divide line 13 by line 12 ..... \_\_\_\_\_ years